



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/872,197	05/31/2001	L. Jeffrey Kapner III	K35A0807	1905
35219	7590	11/15/2007		
WESTERN DIGITAL TECHNOLOGIES, INC.			EXAMINER	
ATTN: RENEE M. QUICK			USTARIS, JOSEPH G	
20511 LAKE FOREST DR.				
E-118H			ART UNIT	PAPER NUMBER
LAKE FOREST, CA 92630			2623	
			MAIL DATE	DELIVERY MODE
			11/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/872,197	KAPNER ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Joseph G. Ustaris	2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 11 September 2007.
- 2a) This action is FINAL.                  2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-24 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_

## DETAILED ACTION

### ***Response to Amendment***

1. This action is in response to the amendment dated September 11, 2007 in application 09/872,197.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-3, 5-7, 9-11, 13-15, 17-19, 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wehmeyer et al. (US005867226A) in view of Knudson et al. (US006564379B1) and Legrand (US006020930A).

Regarding claim 1, Wehmeyer et al. (Wehmeyer) discloses a client terminal (400R) connectable to a head end (400T and 401) and a display device (403) (See Fig. 4), the head end provides program guide information including first program data associated with a first program and second program data associated with a second program (See col. 3 lines 41-64; Master Program Guide includes data for all programs), the client terminal comprising:

a channel input interface to receive the program guide information (See Fig. 4, 400A; col. 3 lines 41-64);

Art Unit: 2623

a user interface to receive a first input and a second input (See Fig. 4, 412R and 450R; wherein the remote control sends multiple commands from the user to the receiver 450R); and

a terminal controller responsive to an on screen display (OSD) control program (See Fig. 4, 415R; col. 4 lines 57-62) for:

displaying an arrangement of a plurality of different channel identifiers (See Fig. 1, row blocks for CBS, UPN, CINE, etc.) in a plurality of rows simultaneously on the display device;

selecting one of the plurality of different channel identifiers in response to the first input (See Figs. 1 and 4, the user selects the CINE channel via remote; col. 2 lines 20-32); and

displaying a pop-up (See Fig. 1, 120) for the selected channel identifier (CINE channel) on the display device (403) while still displaying the arrangement of the plurality of different channel identifiers (See Fig. 1, row blocks for CBS, UPN, CINE, etc.), the pop-up overlaying at least one other channel identifier (See Fig. 1, pop-up 120 overlays row blocks for HBO, CBS, UPN);

wherein:

the pop-up displays the first program data (See Fig. 1, 120; Producer, Rating, and Theme) associated with the first program (See Fig. 1, ZULU) of the selected channel identifier (CINE) in response to the first input (user selecting the CINE channel).

However, Wehmeyer does not explicitly disclose receiving the second input while the pop-up is displaying the first program data and the pop-up displays the second

Art Unit: 2623

program data associated with the second program of the selected channel identifier in response to the second input while the arrangement of the plurality of different channel identifiers in the plurality of rows and columns is still displayed and the pop-up continues to overlay the at least one other channel identifier and displaying the plurality of different channel identifiers in a plurality of columns.

Knudson et al. (Knudson) discloses a program guide system. Knudson discloses a first input also wherein the user can switch from flip mode to browse mode by pressing one of the cursor keys or "selecting one of the plurality of different channel identifiers in response to the first input" (e.g. current flip mode displays "6 KRMA" and user switches to browse mode by pressing one of the cursor keys) (See column 7 lines 4-7). The browse display 70 in browse mode is a pop-up for the selected channel identifier, wherein the browse display 70 is displayed in response to the user pressing one of the cursor keys during the current flip mode and will still display the arrangement of the plurality of different channel identifiers (See Figs. 4 and 5; column 7 lines 4-7). The browse display 70 displays the first program data associated with the first program of the selected channel identifier (See Fig. 4, 6 KRMA Big Comfy couch 10:30 AM) in response to the first input (e.g. the first time the cursor keys are pressed) (See Fig. 4) and the user interface receives the second input (e.g. operating the cursor keys again during browse mode) while the pop-up is displaying the first program data and the browse display 70 displays a second program data associated with the second program of the selected channel identifier in response to the second input (e.g. the user presses the left or right cursor keys to view other program listings corresponding to the current

Art Unit: 2623

channel identifier that occur prior or after 10:30 AM) (See Fig. 4; column 6 lines 26-50). Furthermore, Knudson discloses that the pop-up continues to overlay the screen behind the pop-up (See Fig. 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the pop-up window and system disclosed by Wehmeyer to receive the second input while the pop-up is displaying the first program data and the pop-up displays the second program data associated with the second program of the selected channel identifier in response to the second input and the pop-up continues to overlay the at least one other channel identifier, as taught by Knudson, in order to enhance the way user interacts with the interactive program guide (See col. 1 lines 34-58). Furthermore, Wehmeyer in view of Knudson discloses the arrangement of the plurality of different channel identifiers in the plurality of rows is still displayed with the pop-up (See Wehmeyer Fig. 1).

Legrand discloses a program guide system. Legrand discloses that the program guide system displays a plurality of different channel identifiers in a plurality of rows and columns (See Fig. 7). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system disclosed by Wehmeyer to display the plurality of different channel identifiers in a plurality of rows and columns, as taught by Legrand, in order to provide a user-friendly system interface that accommodates all users by allowing for channel programming information to be presented in a variety of formats (See col. 1 lines 50-64).

Regarding claim 2, the browse display 70 includes a next icon, such that the second input selects the next icon resulting in the display of a second program data that

is associated with a second program that occurs after the first program (See Knudson Fig. 4, right arrow 72; column 6 lines 26-50).

Regarding claim 3, the browse display 70 includes a previous icon, such that the second input selects the previous icon resulting in the display of a second program data that is associated with a second program that occurs before the first program (See Knudson Fig. 4, left arrow 72; column 6 lines 26-50).

Regarding claim 5, the program guide information displayed in the browse display includes a channel number (6), a channel identifier (KRMA), a program time (10:30 AM), and a title of the program (Big Comfy Couch) (See Knudson Fig. 4).

Regarding claim 6, the program guide information displayed in the browse display further includes a description of the program (the program occurs at 10:30 AM) (See Knudson Fig. 4).

Regarding claim 7, the channel identifiers represents broadcast channels or satellite channels (See Knudson column 3 line 59 – column 4 line 6).

Claim 9 contains the limitations of claim 1 (where inherently the STB runs a computer program embodied in a computer readable storage medium in order to successfully perform its functions) and is analyzed as previously discussed with respect to that claim.

Claim 10 contains the limitations of claims 2 and 9 and is analyzed as previously discussed with respect to those claims.

Claim 11 contains the limitations of claims 3 and 9 and is analyzed as previously discussed with respect to those claims.

Claim 13 contains the limitations of claims 5 and 9 and is analyzed as previously discussed with respect to those claims.

Claim 14 contains the limitations of claims 6 and 13 and is analyzed as previously discussed with respect to those claims.

Claim 15 contains the limitations of claims 7 and 9 and is analyzed as previously discussed with respect to those claims.

Claim 17 contains the limitations of claim 1 (wherein the STB performs the method) and is analyzed as previously discussed with respect to that claim.

Claim 18 contains the limitations of claims 2 and 17 and is analyzed as previously discussed with respect to those claims.

Claim 19 contains the limitations of claims 3 and 17 and is analyzed as previously discussed with respect to those claims.

Claim 21 contains the limitations of claims 5 and 17 and is analyzed as previously discussed with respect to those claims.

Claim 22 contains the limitations of claims 6 and 21 and is analyzed as previously discussed with respect to those claims.

Claim 23 contains the limitations of claims 7 and 17 and is analyzed as previously discussed with respect to those claims.

4. Claims 4, 12, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wehmeyer et al. (US005867226A) in view of Knudson et al. (US006564379B1)

and Legrand (US006020930A) as applied to claims 1, 9, and 17 above, and further in view of Alexander et al. (US006177931B1).

Claim 4 contains the limitations of claim 1 and is analyzed as previously discussed with respect to that claim. However, Wehmeyer in view of Knudson and Legrand does not disclose a record icon resulting in the recording of the first program in a local memory.

Alexander et al. (Alexander) discloses an electronic program guide that includes a record icon, whereupon when a user selects the record icon the system records the program (See Fig. 1, Record 46; column 7 line 58 – column 8 line 3). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the electronic program guide display disclosed by Wehmeyer in view of Knudson and Legrand to include a record icon, such that the second input selects the record icon resulting in the recording of the first program, as taught by Alexander, in order to provide the user with easy access to record a program that is currently being watched so the user may watch the recorded program at a time that is more convenient.

Wehmeyer in view of Knudson, Legrand, and Alexander does not expressly disclose storing the recorded program in local memory. Official Notice (MPEP 2144.03) is taken that both the concepts and advantages of recording in a local memory are well known and expected in the art. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to have the recording be stored in a local memory in order to have a faster access to the recorded program.

Claim 12 contains the limitations of claims 4 and 9 and is analyzed as previously discussed with respect to those claims.

Claim 20 contains the limitations of claims 4 and 17 and is analyzed as previously discussed with respect to those claims.

5. Claims 8, 16, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wehmeyer et al. (US005867226A) in view of Knudson et al. (US006564379B1) and Legrand (US006020930A) as applied to claims 1, 9, and 17 above, and further in view of Jerding (US006463586B1).

Claim 8 contains the limitations of claim 1 and is analyzed as previously discussed with respect to that claim. However, Wehmeyer in Knudson and Legrand does not disclose that the client terminal displays predetermined channel identifiers in a predetermined order set by the user.

Jerdig discloses a service navigation system for an electronic program guide. Jerding discloses that a client terminal is able to display predetermined channel identifiers in a predetermined order set by the user (See column 3 lines 11-19). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the STB and program guide system disclosed by Wehmeyer in Knudson and Legrand to be able to display predetermined channel identifiers in predetermined order set by the user, as taught by Jerding, in order to provide a electronic program guide that is more powerful and extensible then mere channel number navigation (See column 3 lines 11-19).

Claim 16 contains the limitations of claims 8 and 9 and is analyzed as previously discussed with respect to those claims.

Claim 24 contains the limitations of claims 8 and 17 and is analyzed as previously discussed with respect to those claims.

***Response to Arguments***

6. Applicant's arguments with respect to claims 1-24 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please take note of Gagnon et al. (US006522342B1) for their similar system of displaying a plurality of identifiers in a plurality of rows and columns with a pop-up overlaying the plurality of identifiers.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

Art Unit: 2623

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph G. Ustaris whose telephone number is 571-272-7383. The examiner can normally be reached on M-F 7:30-5 PM; Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher S. Kelley can be reached on 571-272-7331. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 09/872,197  
Art Unit: 2623

Page 12

JGU

November 8, 2007

  
CHRIS KELLEY  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600